

2. Operational Plan

Activity C: Health Information Systems Capacity

The Director of the Office of Integrated Surveillance and Informatics Services (Haney) and Director of Information Technology (Corban) within the Bureau of Infectious Disease, and the Director of Information Technology (Caloggero) within the Bureau of Laboratory Sciences have overall responsibility for ensuring the objectives outlined below are met.

Objective 4: Implement and enhance electronic laboratory information exchange:

1. BLS will integrate the remaining viral serology laboratory component into the LIMS. Deployment of the viral serology laboratory component will include interfacing with ELR and sending reportable laboratory results using the existing IT infrastructure.
2. BLS will expand its existing LIMS ELR interfacing by upgrading Rhapsody IDE to produce a HL7 2.5.1 message to meet Meaningful Use criteria for all reportable disease results sent to BID MAVEN. Reporting to the CDC through PHINMS will be expanded to include test results generated by the viral serology laboratory.
3. BLS will continue to participate in the Public Health Laboratory Interoperability Project (PHLIP) and the CDC LIMS_i workgroups.
4. BLS will build the Norovirus PCR and sequencing assay components into the LIMS once the assays are validated by the laboratory. Reporting will include submission of results to CaliciNet.

Staff will:

- Integrate the remaining viral serology laboratory component in LIMS infrastructure. This includes ELR interfacing and HL7 2.5.1 reporting to BID.
- Convert the existing HL7 2.3.1 message used to send reportable test results BID to HL7 2.5.1 to meet Meaningful Use criteria.
- Purchase Rhapsody IDE support and maintenance for LIMS, ELR and MAVEN interfacing and interoperability expansion.
- Build the Norovirus PCR and sequencing assays components into the LIMS once the assays are validated by the laboratory.
- Continue participation in the PHLIP activities and LIMS_i workgroups.

Timeline (9/30/10 – 8/31/2011):

- By 07/31/2012 the viral serology LIMS component will be deployed and interfaced with ELR and MAVEN.
- By 12/31/2011, the BLS HL7 2.3.1 message used to send reportable test results BID will be upgraded to HL7 2.5.1 to meet Meaningful Use criteria.
- By 07/31/2012, Rhapsody IDE support and maintenance will be purchased to support interoperability expansion efforts.
- By 07/31/2012, the Norovirus PCR and sequencing assay components will be developed and integrated into the LIMS infrastructure.

Measures of Impact and Effectiveness

- The Viral Serology Laboratory LIMS component will be deployed and interfaced with ELR by 07/31/2012. Reportable results will be sent to BID in HL7 2.5.1 format for BID certification.
- The BLS HL7 2.3.1 message used to send reportable test results BID will be upgraded to HL7 2.5.1 by 12/31/2011 to meet Meaningful Use criteria.

- The Norovirus PCR and sequencing assays components will be developed and integrated into the LIMS infrastructure by 07/31/2012.
- Rhapsody IDE support and maintenance will be in place to support ELR and HL7 expansion efforts.